| <br> | <br>laims |  |
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|      |           |  |

| Application No. | Applicant(s) |  |
|-----------------|--------------|--|
| 09/975,682      | HUANG, GANG  |  |
| Examiner        | Art Unit     |  |
| Chieh M. Fan    | 2638         |  |

| √ | Rejected |  |
|---|----------|--|
| = | Allowed  |  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  | [ |
|---|--------------|---|
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| CI                 | aim      | Date      |              |               |           |          |                     |          | Claim Date |           |                |          |               |                 | <b>-</b>     |                 | laim     | Data            |            |           |            |          |              |                 |  |   |              |                   |          |
|--------------------|----------|-----------|--------------|---------------|-----------|----------|---------------------|----------|------------|-----------|----------------|----------|---------------|-----------------|--------------|-----------------|----------|-----------------|------------|-----------|------------|----------|--------------|-----------------|--|---|--------------|-------------------|----------|
| <del>       </del> |          | $\vdash$  |              | $\neg$        | Ť         | <u> </u> | $\top$              | Т        | T          | 1         |                |          |               |                 |              |                 |          | $\dashv$        | ⊢۲         | laim<br>T | Date       |          |              |                 |  |   |              | _                 |          |
| Final              | Original | 3/20/05   | 9/12/05      |               |           |          |                     |          |            |           | Final          | Original |               |                 |              |                 |          |                 |            | Final     | Original   |          |              |                 |  |   |              |                   |          |
|                    | 1        | V         | 1            | 1             | 十         | _        | +                   |          | <u> </u>   |           |                | 51       |               | $\top$          | +            | 1 1             | $\dashv$ | +-+             | 7          |           | 101        | $\vdash$ | +            | +               | +-   | H   |              | -                 | <u> </u> |
|                    | 2        | V         | <b>√</b>     | 1             |           |          | -                   | T        | T          | 1         |                | 52       | $\Box$        | $\top$          | +            | $\vdash$        | 十        | † †             | 7!!!!      | $\vdash$  | 102        | $\vdash$ | 十            | ╁               | ╁╌   | H   | _            | -                 | $\vdash$ |
|                    | 3        | 1         | 1            | 1             | T         |          | $\top$              |          |            | 1         |                | 53       | $\Box$        | $\neg \vdash$   | $\top$       |                 |          |                 | 7          |           | 103        |          | $\top$       | †               | <del>                                     </del> |   | 一            | $\neg$            | $\vdash$ |
|                    | 4        | √.        | 1            |               | T         |          | T                   |          | П          | 1         |                | 54       |               | $\neg \uparrow$ | $\top$       |                 |          |                 | 7          |           | 104        |          | $\top$       | T               | 1-   | $\vdash$  | $\neg$       | $\neg$            | _        |
|                    | 5        | <b>√</b>  | 1            |               |           |          |                     |          | Г          | 1         |                | 55       |               | T               |              | 1 1             |          |                 | 7          |           | 105        |          | 1            | T               | ⇈  | Н   |              | $\neg$            |          |
|                    | 6        | 1         | 1            |               |           | Т        |                     |          |            |           |                | 56       |               | 1               | T            |                 |          |                 | 7          |           | 106        |          | T            | $\top$          | t  | $\Box$  | $\dashv$     | $\neg$            |          |
|                    | 7        | 1         | 0            |               |           |          |                     |          |            | ]         |                | 57       |               |                 |              | П               |          |                 | 7!!!!      |           | 107        |          | 1            | 1               | T  | П   | 寸            | ╛                 |          |
|                    | 8        | 1         | 1            |               | $\perp$   |          |                     |          |            |           |                | 58       |               |                 |              | П               |          |                 |            |           | 108        |          | 1            |                 |  |   |              |                   |          |
|                    | 9        | √         | √            |               | ┸         |          |                     | <u> </u> |            |           |                | 59       |               |                 |              |                 |          |                 |            |           | 109        |          |              | П               |  |   |              |                   |          |
|                    | 10       | 1         | 1            | $\perp$       | 丄         | $\perp$  | $\perp$             | 上        | L          |           |                | 60       |               |                 |              |                 |          |                 |            |           | 110        |          | Т            | T               | Γ  | П   |              |                   |          |
|                    | 11       | V         | √            | _             | $\perp$   |          |                     | <u> </u> | 匚          |           |                | 61       |               |                 |              |                 |          |                 |            |           | 111        |          |              |                 |  | П   | T            | $\neg$            |          |
| <u> </u>           | 12       | √,        | <b>√</b>     |               | $\bot$    | 1        | 1                   | $\perp$  | <u> </u>   |           |                | 62       | oxdot         | L               |              | Ш               |          | $oxed{oxed}$    | _          |           | 112        |          | $\Box$       |                 |  |   |              |                   |          |
| <u> </u>           | 13       | <b>√</b>  | <b>√</b>     | $\bot$        | 1         | _        | ╄-                  | <u> </u> | _          |           | ļ              | 63       |               | $\perp$         | $\perp$      | Ш               | $\perp$  |                 | _          |           | 113        |          |              |                 |  |   |              |                   |          |
|                    | 14       | √         | <b>√</b>     | _             | $\perp$   | 4_       | ╄                   | ╙        | ļ          |           |                | 64       | $\sqcup$      |                 |              |                 |          | $\sqcup \bot$   | _          |           | 114        |          | L            |                 | L  |   |              |                   |          |
| <u> </u>           | 15       | 1         | 1            | $\dashv$      | $\bot$    | +-       | $\vdash$            | $\vdash$ | _          |           |                | 65       | $\sqcup \bot$ | Ŀ               | <u> </u>     | Ц               | $\bot$   | Ш.              | _          |           | 115        |          | 匚            |                 |  | Ш   |              |                   | _        |
|                    | 16       | 1         | 1            | $\rightarrow$ | +         | -        | ╄                   | <u> </u> |            |           |                | 66       | $\perp \perp$ | - -             | ╄            | $\sqcup$        |          | $\sqcup$        | 4          |           | 116        |          | 丄            | _               |  |   |              |                   |          |
| -                  | 17       | <b>√</b>  | 4            |               | +         | +        | -                   | L        | _          |           |                | 67       |               | _               | ╄-           |                 | $\perp$  | 1               | 4          |           | 117        |          | <u> </u>     | <u> </u>        |  |   |              |                   |          |
|                    | 18       | √<br>√    | 0            | -             | +         | +        |                     | L.       |            |           |                | 68       | $\vdash$      | $\bot$          |              | <b>-</b>        |          | $\sqcup \sqcup$ | _          |           | 118        |          | $\perp$      |                 |  |   | _            | i                 |          |
| <u> </u>           | 19       | 7         |              | $\rightarrow$ | 丰         | $\mp$    | -                   | F        | Ť          |           |                | 69       |               | _               | ┼            | $\vdash$        |          |                 | 4          |           | 119        |          | ╄            | <u> </u>        |  | Ш   | _            |                   |          |
| -                  | 20<br>21 | 7         | 7            | $\mp$         | $\mp$     | +        |                     |          | Ξ.         |           |                | 70       |               | -               | +            |                 | _        | $\perp \perp$   | 4          |           | 120        | _        | ļ            | L               | Ш  | $\sqcup$  | _            | _                 |          |
|                    | 22       | ν.<br>1   | 7            | #             | -         | #        | =                   |          | =          |           |                | 71       |               | 4               |              | $\sqcup$        |          | <u> </u>        | _          |           | 121        |          | ↓_           | L               | Ш  |   | _            | _                 |          |
|                    | 23       | <b>√</b>  | <b>V</b>     | ==            | -         | -        |                     | П        | =          |           |                | 72       | -             | +               | ↓_           | $\vdash \vdash$ | -        | <del>   -</del> | 4          |           | 122        | _        | ļ.,          | Ļ               | Щ  | $\sqcup$  | _            | _                 |          |
|                    |          | -V        | ~            |               | +         | +-       | ₩                   | Н        | -          |           |                | 73       | -             | +               | _            | Ы.              | _        | <b>!</b>        | 4          |           | 123        |          | <u> </u>     | $oxed{igspace}$ | Ш  | $\Box$  | 4            | _                 |          |
|                    | 24       | -         | $\dashv$     | +             | +         | ╁        | ╁                   | Н        |            |           |                | 74       | -             | -               | ↓            | $\vdash$        |          | $\vdash$        | 4          |           | 124        |          | ╄            | ļ_              | Ш  |   | _            | _                 |          |
|                    | 25<br>26 | -         | $\dashv$     | -             | +-        | ┿        | ₩                   | Н        |            |           |                | 75       | -             | 4               | <b>├</b>     | $\vdash$        | -        | <u> </u>        | 4          |           | 125        |          | ┞            | L               |  |   | 4            | _                 |          |
|                    | 27       | $\dashv$  | $\dashv$     | -             | +         | +        | ╁                   | Н        |            |           |                | 76       | -             | -               | ╀            | -               |          | $\vdash$        | 4          |           | 126        |          | ļ            | <u> </u>        |  | _   | _            | _                 |          |
|                    | 28       | -         | $\dashv$     | +             | ╁         | +-       | ╁                   | $\vdash$ | _          |           |                | 77       |               | +               | $\vdash$     | ┝               | -        | ⊢⊢              | -          |           | 127        | _        | ــــ         | <u> </u>        | Ш  | $\dashv$  | _            | _                 |          |
|                    | 29       | $\dashv$  | +            | +             | +         | ┿        | ┼                   | $\vdash$ |            |           |                | 78<br>79 | $\dashv$      | +-              | ╁            | $\vdash$        | +        | $\vdash$        | -          |           | 128        |          | ├            | <u> </u>        | Н  |   | _            | $\dashv$          |          |
|                    | 30       | $\dashv$  | +            | +-            | +         | ╁╌       | <del> </del>        | $\vdash$ | _          |           |                | 80       | -             | +-              | ╁            | $\vdash$        | +        |                 | -          |           | 129        | +        | ╄            |                 | Н  | -   | -            | -                 | _        |
| _                  | 31       | 7         | $\dashv$     | $\dashv$      | ╁         | +-       | <del> </del>        | $\vdash$ |            |           |                | 81       | $\dashv$      | +-              | ╁            | -               | +        |                 | -          |           | 130        |          | ╁            | ⊢               | Н  |   | -+           | $\dashv$          | _        |
|                    | 32       | $\dashv$  | 十            | $\dashv$      | +-        | ╁        | $\vdash$            |          |            |           |                | 82       |               | ╁               | -            | $\vdash$        | +-       | $\vdash$        | -          |           | 131<br>132 |          | ╁            | H               | $\vdash$   | $\dashv$  | +            | $\dashv$          |          |
|                    | 33       | $\dashv$  | _            | $\dashv$      | $\top$    |          | H                   |          |            | ŀ         |                | 83       | -             | ╅┈              | +            | $\vdash$        | +-       | $\vdash$        | -          |           | 133        | +        | $\vdash$     | -               | $\vdash$   | +   | +            | $\dashv$          |          |
|                    | 34       | +         | $\dashv$     | $\dashv$      | +-        | T        | H                   | H        |            |           |                | 84       | $\dashv$      | +               | +            | $\vdash$        | +        | $\vdash \vdash$ | -          |           | 134        | +        | $\vdash$     | $\vdash$        | $\vdash$   | $\dashv$  | $\dashv$     | +                 | _        |
|                    | 35       | 寸         | 寸            | $\top$        | $\dagger$ | T        | П                   | H        |            | <br> <br> |                | 85       | $\dashv$      | +-              | $\forall$    | $\dashv$        | +        | $\vdash$        | 1          |           | 135        |          | <del> </del> | $\vdash$        | $\vdash$   | $\dashv$  | +            | $\dashv$          | -        |
|                    | 36       | $\dashv$  | $\exists$    | 1             | 1         | $\top$   | П                   | $\Box$   |            |           |                | 86       | _             | +-              | Н            | -               | $\top$   | $\vdash$        | 1          |           | 136        | +        | ╁            | $\vdash$        | ┝╌┥  | $\dashv$  | $\dashv$     | +                 | -        |
|                    | 37       | $\exists$ | 寸            | $\neg$        | $\top$    |          | П                   | $\Box$   |            |           | $\neg \dagger$ | 87       |               | T               | Н            | 1               | $\dashv$ | - -             | 1          |           | 137        | +        | $\vdash$     | $\vdash$        | $\vdash$   | $\dashv$  | $\dashv$     | $\dashv$          | $\dashv$ |
|                    | 38       | $\neg$    | $\dashv$     | ╗             | 1         |          |                     | H        |            |           |                | 88       | $\neg +$      | 1               | H            | +               | $\neg$   |                 | 1          | -         | 138        | $\dashv$ | $\vdash$     | $\vdash$        | H  | $\dashv$  | $\dashv$     | 十                 | $\dashv$ |
|                    | 39       |           | _            |               |           | T        | П                   | $\Box$   |            |           |                | 89       | $\top$        | 1               | П            | $\dashv$        | 1        | $\vdash$        | 1 1        |           | 139        | _        | $\vdash$     | $\vdash$        | $\vdash$   | $\dashv$  | +            | +                 | _        |
|                    | 40       |           |              |               |           |          |                     |          |            |           |                | 90       |               | T               | П            | $\top$          | 1        | 一十              | T:::::     |           | 140        | $\neg$   | $\Box$       | $\vdash$        | $\dashv$   | $\dashv$  | +            | 十                 | _        |
|                    | 41       | J         | $oxed{\int}$ |               | I         |          |                     |          |            |           |                | 91       |               | T               | П            |                 |          |                 | 1 <b>)</b> |           | 141        |          | $\Box$       |                 | $\dashv$   | 十   | $\top$       | $\dashv$          | ᅥ        |
| ]                  | 42       | $\Box$    | $\Box$       | _[_           |           |          |                     |          |            | ]         |                | 92       |               |                 |              |                 |          |                 | 7          |           | 142        | $\top$   | $\vdash$     |                 |  | $\dashv$  | $\neg$       | ヿ                 | ᅱ        |
|                    | 43       | _         | $\perp$      | $\perp$       |           |          | $\sqcup$            |          |            | ::::[     |                | 93       |               |                 |              |                 |          |                 | ]          |           | 143        |          |              |                 |  |   | 十            | 十                 | ٦        |
|                    | 44       | 4         | _            | $\perp$       | 1_        |          | Ш                   |          | _]         |           | [              | 94       |               | $\perp$         | $oxed{\Box}$ |                 |          |                 | ] [        |           | 144        |          |              |                 |  |   | $\top$       | 丁                 | $\neg$   |
|                    | 45       | $\dashv$  | 4            |               | $\perp$   | $\perp$  | <b>.</b>            | $\dashv$ | _          |           |                | 95       |               | 1_              | Ш            | $\Box$          |          |                 | ][         |           | 145        |          |              |                 |  |   |              | J                 |          |
|                    | 46       | _         | $\dashv$     | 4             | 4         | ↓_       | $\vdash$            | _        |            | L         |                | 96       |               | $\perp$         | Ш            |                 |          |                 | ] [        |           | 146        |          |              |                 |  | $\Box$  | $oxed{\int}$ | $\Box$            |          |
|                    | 47       | $\dashv$  | 4            | -             | $\bot$    | $\sqcup$ | $\sqcup$            | _        |            | iiil.     |                | 97       | _ _           | 1_              | Ш            |                 |          |                 | ا ال       |           | 147        |          |              |                 |  | $oldsymbol{ol}}}}}}}}}}}}}}}$ | $oxed{oxed}$ |                   |          |
|                    | 48       | +         | +            | +             | +         | $\vdash$ | $\vdash \downarrow$ |          | _          |           | _              | 98       | _             | $\bot$          | $\sqcup$     | $\perp$         | نبل      |                 | 4 1        |           | 148        | _ _      |              |                 |  | $\Box$  | $\perp$      | $\Box$            |          |
|                    | 49       | +         | +            | +             | +-        | $\vdash$ | $\vdash$            |          | ᆛ          | L         |                | 99       | $\bot$        | ╀-              | Ш            | $\bot$          | $\bot$   | $oxed{oxed}$    | L          |           | 149        |          |              |                 |  | $\prod$   | $oxed{I}$    | $oldsymbol{\bot}$ |          |
|                    | 50       |           | - 1          | - 1           |           | 1        | ıl                  | - 1      | ı          | :::::     |                | 100      |               | 1               | 1 1          |                 |          |                 | 1:::::[    |           | 150        | ſĪ       | 1 -1         | i               | П  | T   | T            | Т                 | $\neg$   |